



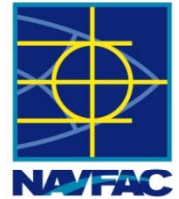
# Hunters Point Naval Shipyard BCT Meeting



## Parcel E-2 Shoreline Seep Update



# Review



- Shoreline seepage noted near probe 86
  - Survey of material via real-time instrumentation reported 0.0 parts per million VOCs and 0% LEL.
  - BCT notified during June 20, 2013 site visit.
  - Temporary well installed and water sample collected on June 25, 2013.
  - Sample results included:
    - Diesel Range Organics at 1,600 ug/L
    - Motor Oil Range Organics at 1,300 ug/L
    - Ammonia as Nitrogen at 15,800 ug/L
- Area designated for future excavation by Draft Parcel E-2 Design Basis Report

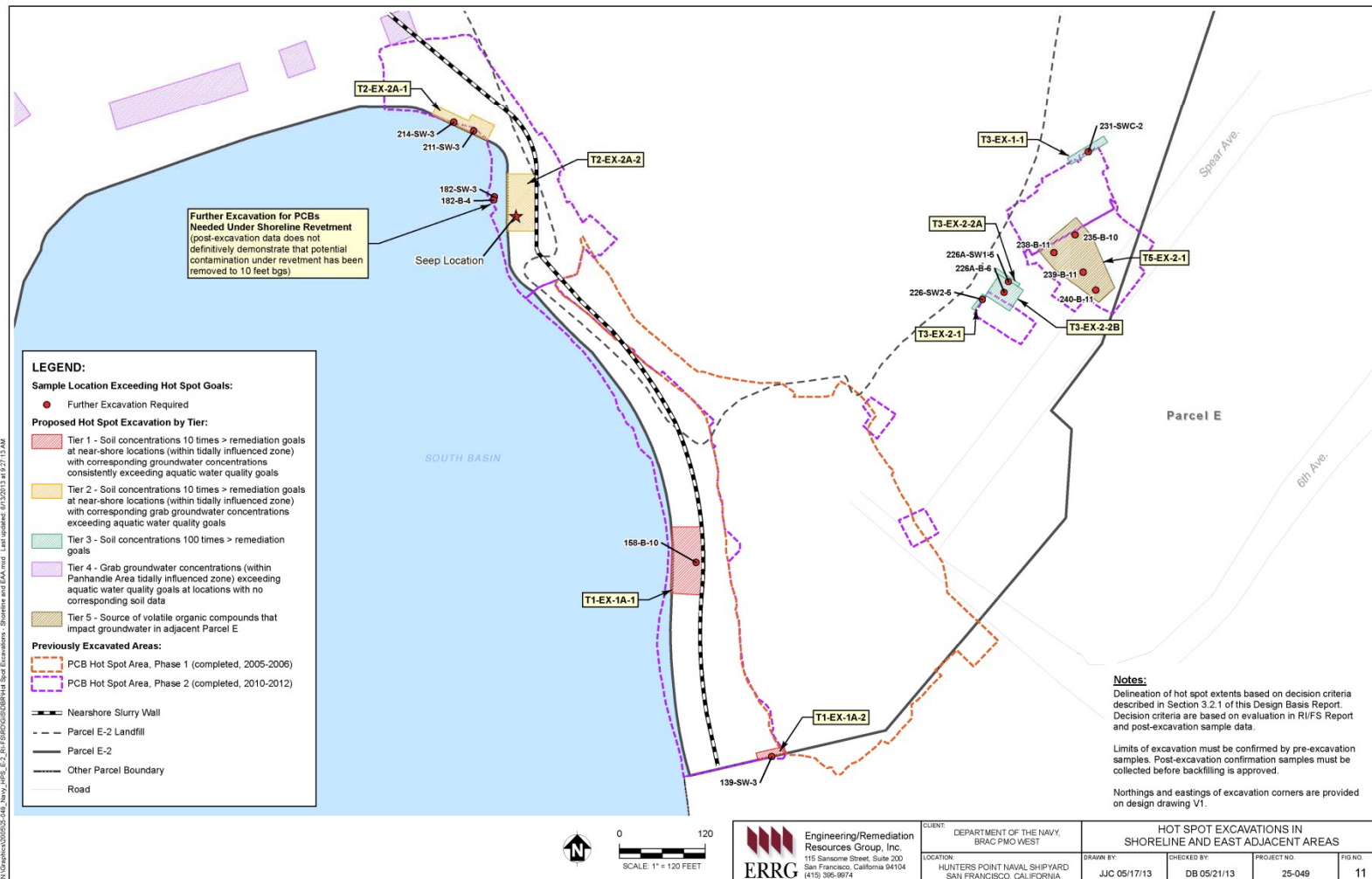


# Shoreline Seepage Location



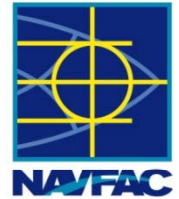


# Design Basis Report Proposed Excavations





# Reactive Core Mat Installation

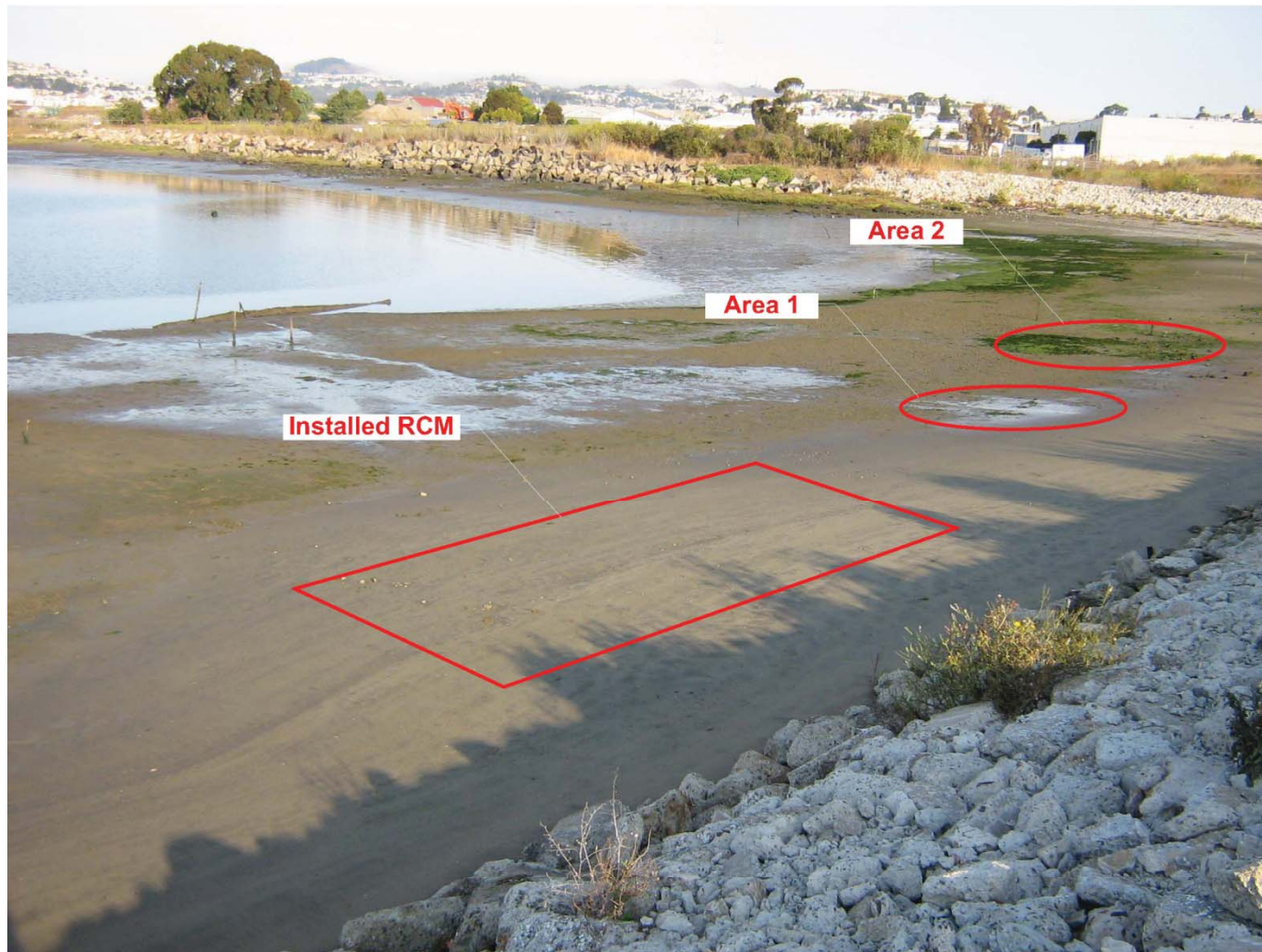


- Reactive Core Mat (RCM) was installed as interim mitigation measure until Remedial Action in 2014.
  - Installation of 15' x 25' RCM on July 24, 2013.
  - RCM consists of reactive organically-modified bentonite media encapsulated between layers of permeable geotextile.
  - Geotextile allows water to pass through RCM, while organoclay media absorbs petroleum contaminants.
  - RCM placed on top of seepage via long-reach excavator, with edges buried in shallow anchor trenches.
  - RCM covered with a minimum of 12" clean imported sand.



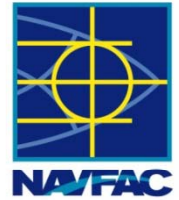


# Shoreline Seepage (8/27/13)





## Area 1 Closeup (08/27/13)







## Area 2 Closeup (08/27/13)







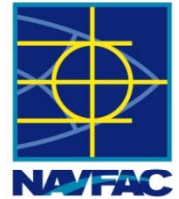
## Path Forward



- Install additional 100' x 15' of RCM in September/October timeframe
  - Cut into two pieces to cover Areas 1 and 2
- RCM to be placed on top of seepage via long-reach excavator, with edges buried in shallow anchor trenches.
- Crane mats may be needed to allow excavator access to additional areas of beach.
- Place a minimum of 60 CY (1 foot) clean imported sand on top of RCM.
- Weekly visual inspections to be performed on RCM until Remedial Action in 2014.
  - Excavate seepage area
  - Install shoreline slurry wall to prevent further migration of contaminated groundwater to the shoreline



## Hot Spot RA Tentative Schedule



- Project Award – August 29, 2013
- Draft RAWP to BCT – November 25, 2013
- Final RAWP – February 5, 2014
- Mobilize to Field – February 6, 2014
- Hot Spot Delineation – February 13 through April 14, 2014
- Draft Pre-Excavation Tech Memo to BCT – May 30, 2014
- Final Pre-Excavation Tech Memo – August 1, 2014
- Hot Spot Excavations – July 2014 through January 2015
- Draft RACR to BCT – May 2015
- Final RACR – August 2015